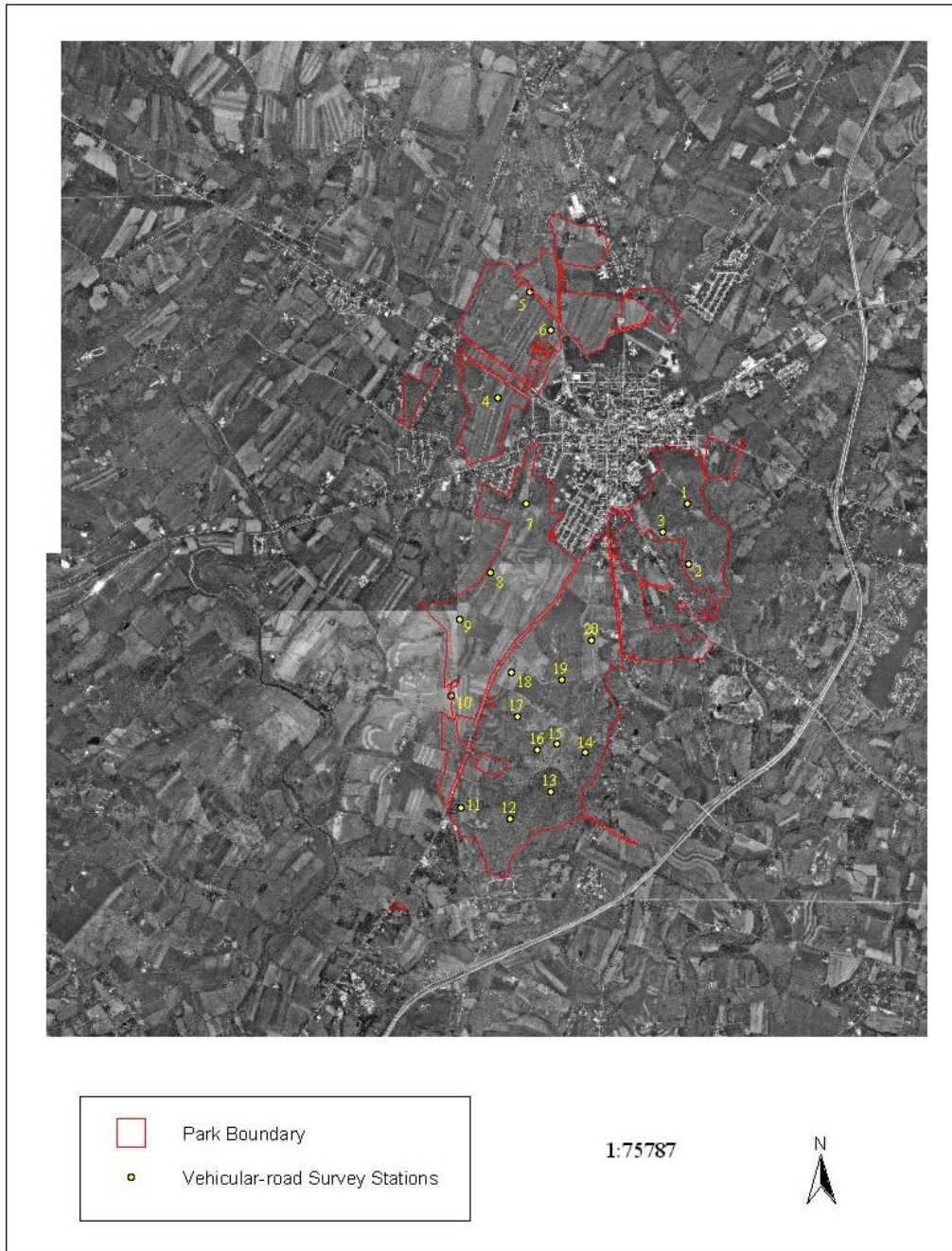
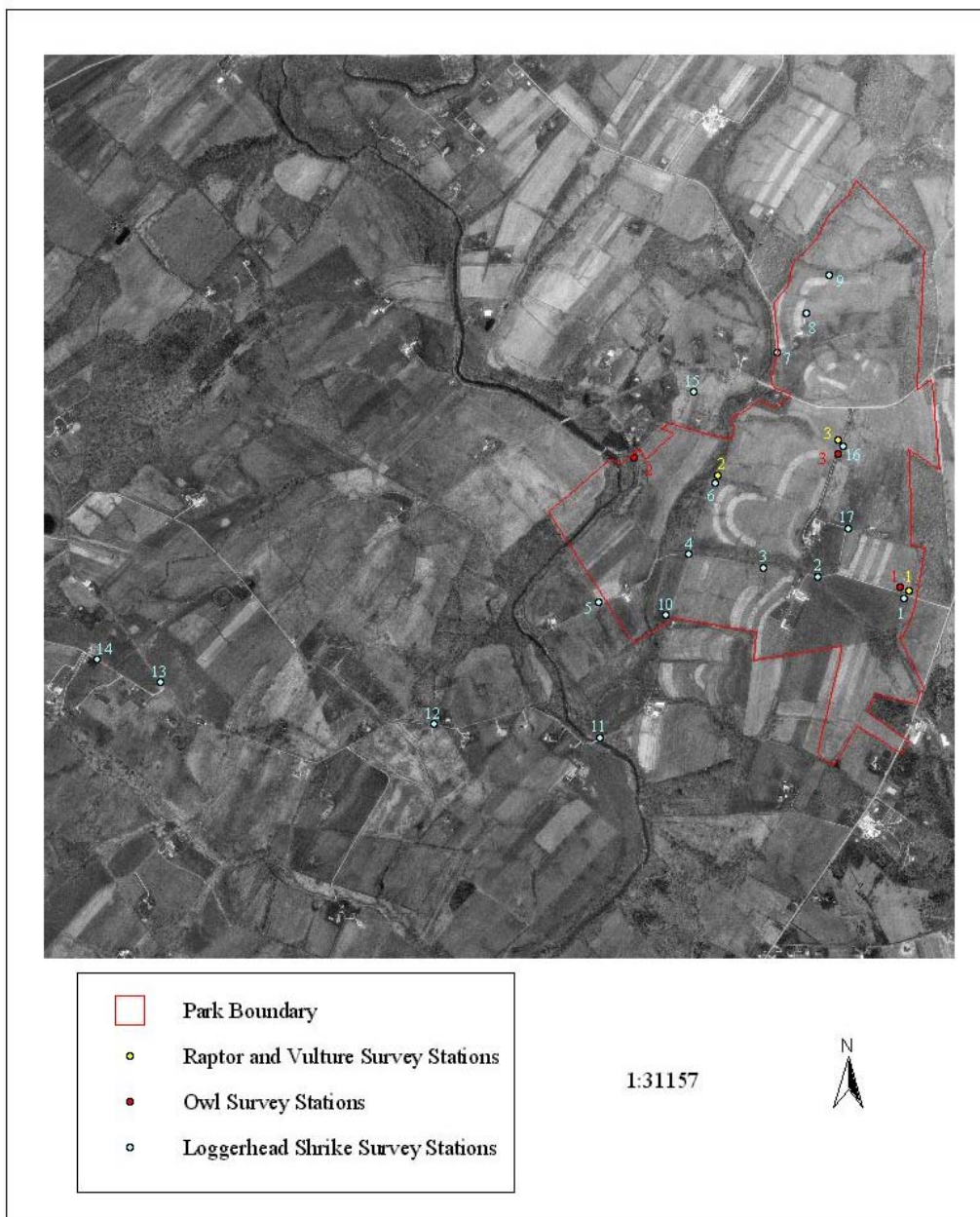


Appendix M. Location of the vehicular-road survey stations at Gettysburg National Military Park.

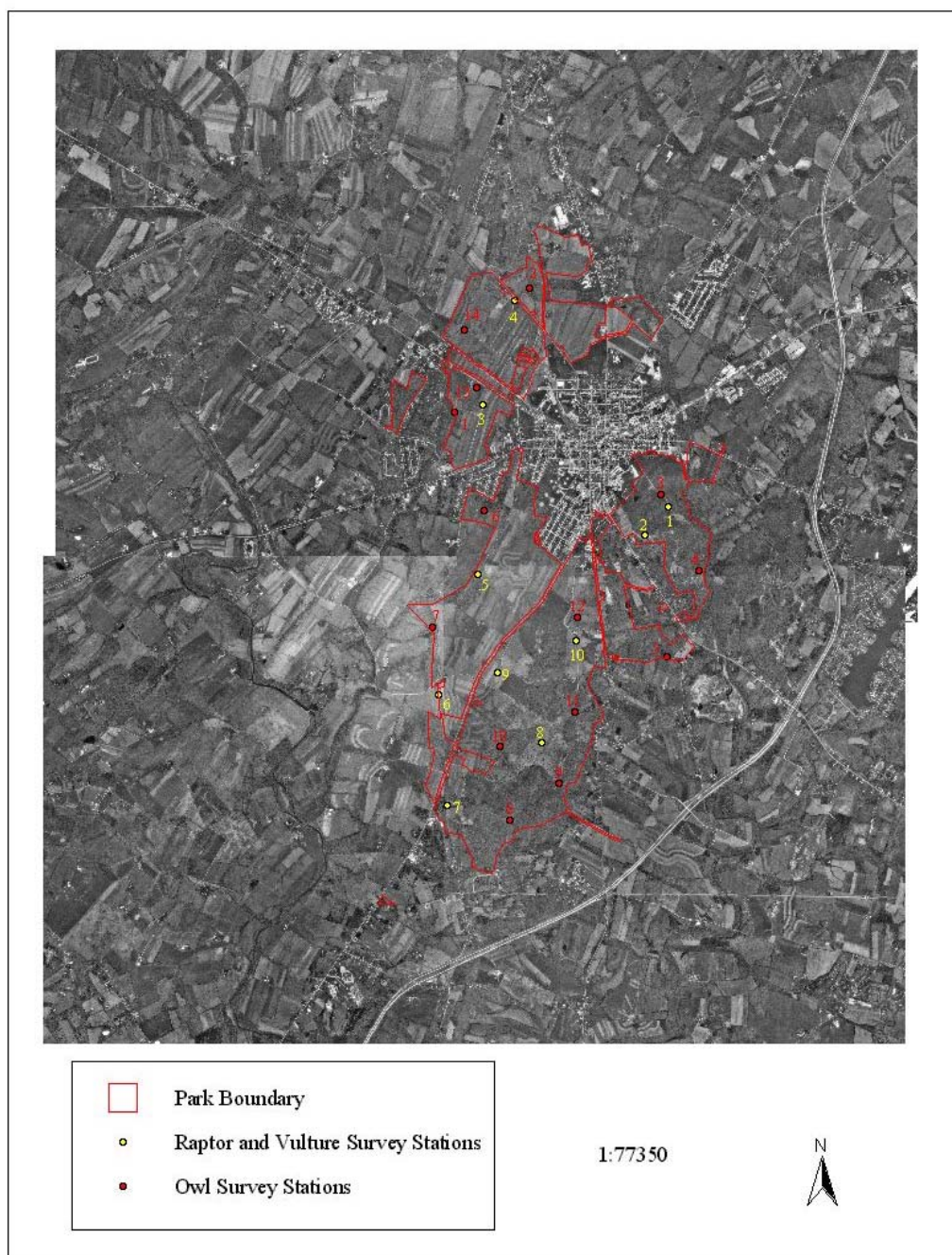


Appendix N. Location of the diurnal raptor and vulture, owl, and loggerhead shrike survey stations at Eisenhower National Historic Site.

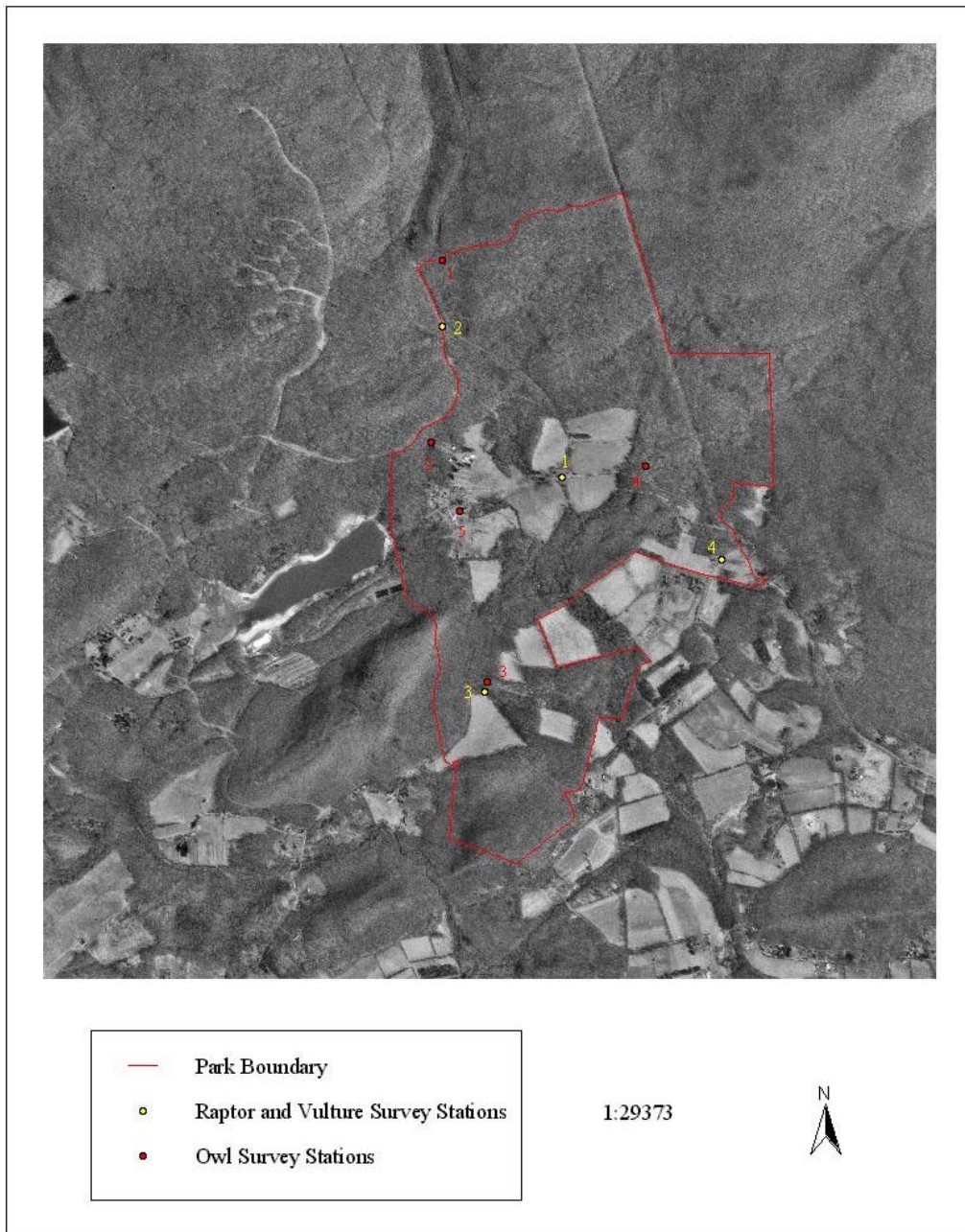




Appendix O. Location of the diurnal raptor and vulture and owl survey stations at Gettysburg National Military Park.

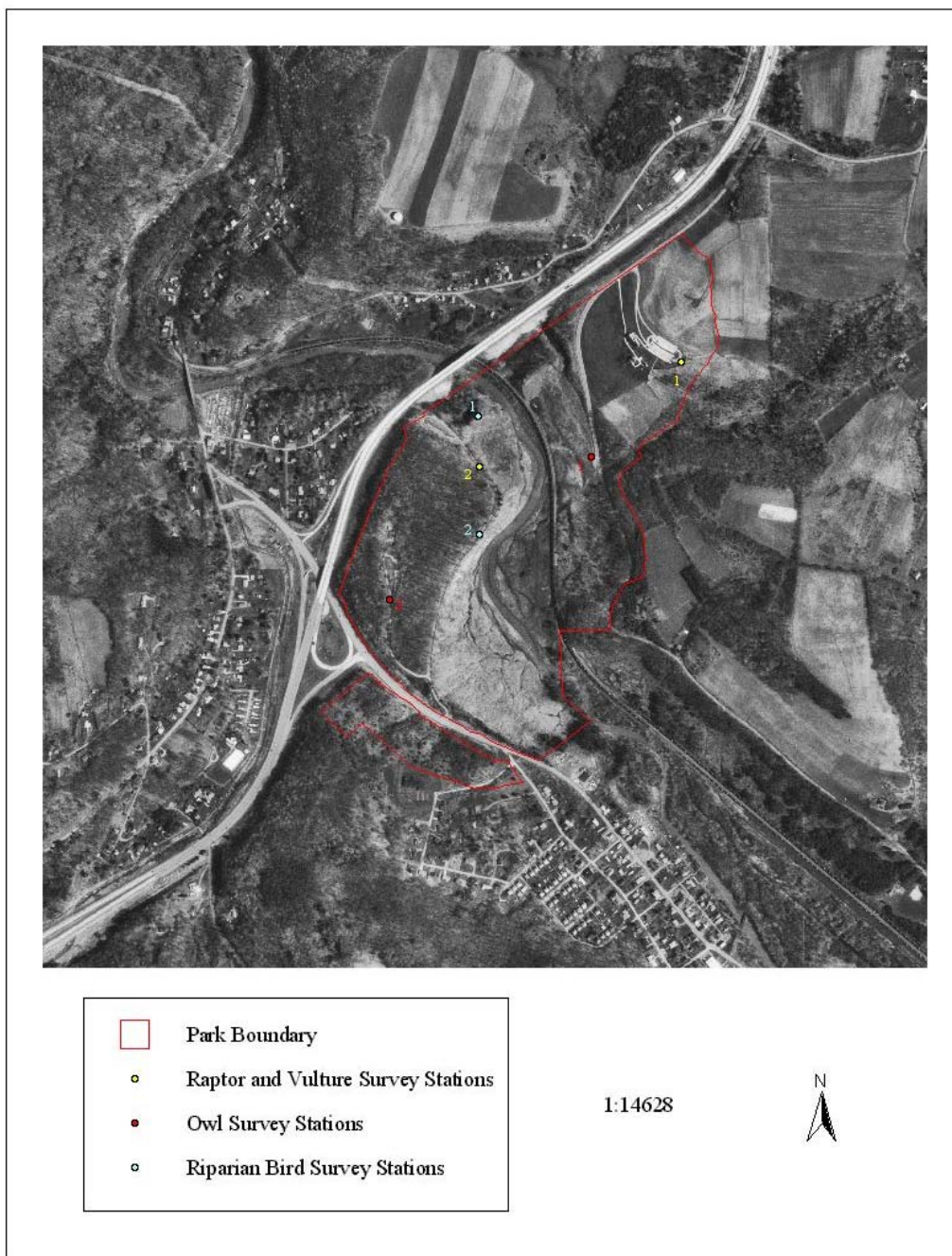


Appendix P. Location of the diurnal raptor and vulture and owl survey stations at Hopewell Furnace National Historic Site.

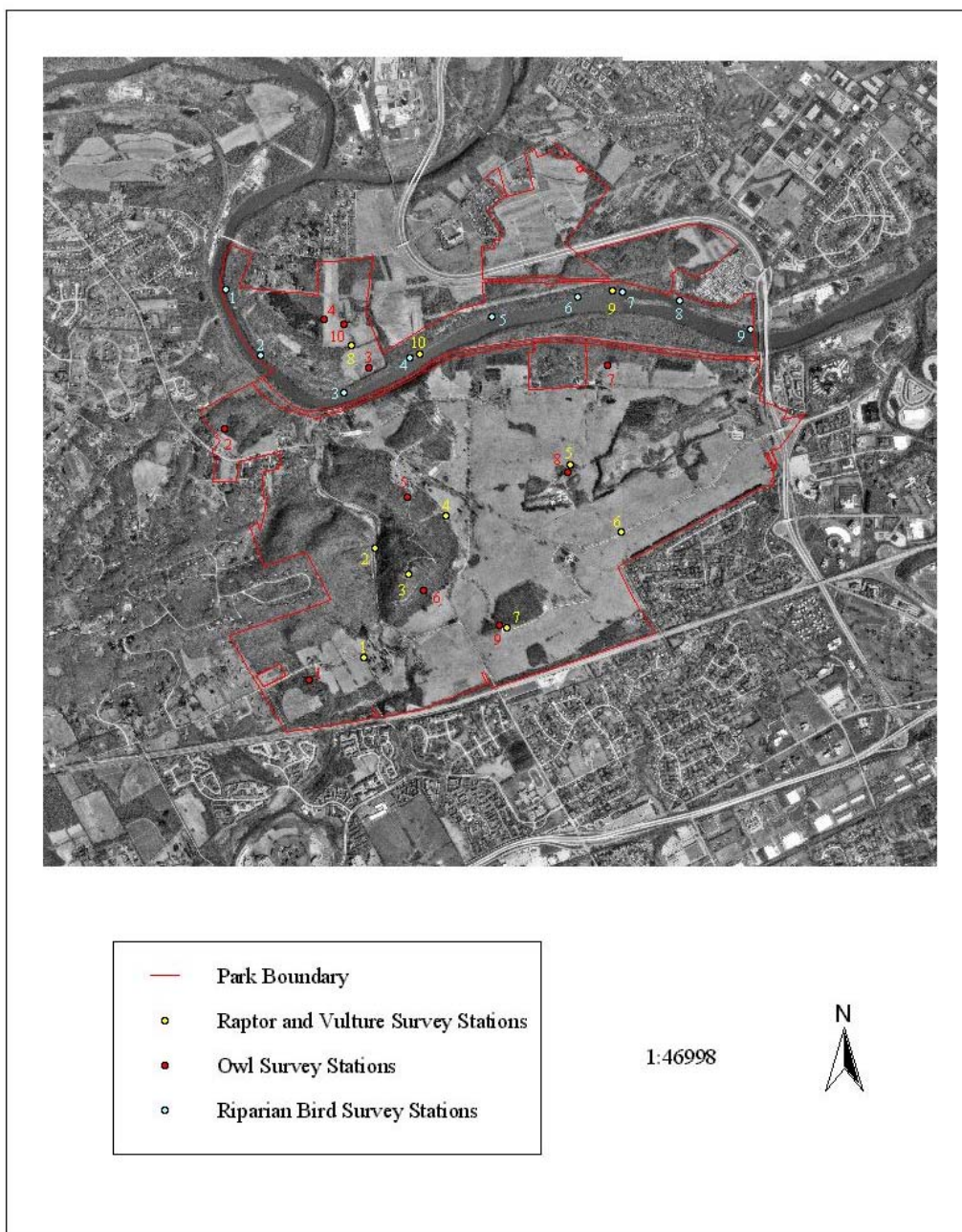




Appendix Q. Location of the diurnal raptor and vulture, owl, and riparian bird survey stations at Johnstown Flood National Memorial.



Appendix R. Location of the diurnal raptor and vulture, owl, and riparian bird survey stations at Valley Forge National Historical Park.



Appendix S. Bird species noted (indicated by an “X”) from historical records versus species detected from May 1999 - May 2001 at Allegheny Portage Railroad National Historic Site.

Species	Historical Records <sup>a</sup>	May 1999 - May 2001
Acadian Flycatcher	X	X
American Crow	X	X
American Goldfinch	X	X
American Redstart	X	X
American Robin	X	X
American Tree Sparrow		X
American Woodcock		X
Baltimore Oriole	X	X
Bay-breasted Warbler	X	X
Belted Kingfisher		X
Black-and-white Warbler	X	X
Black-billed Cuckoo		X
Black-capped Chickadee	X	X
Blackburnian Warbler	X	X
Blackpoll Warbler	X	X
Black-throated blue Warbler	X	X
Black-throated Green Warbler	X	X
Blue Jay	X	X
Blue-gray Gnatcatcher	X	X
Blue-headed Vireo	X	X
Blue-winged Warbler		X
Broad-winged Hawk	X	X
Brown Creeper	X	X
Brown Thrasher		X

Appendix S. Bird species noted (indicated by an “X”) from historical records versus species detected from May 1999 - May 2001 at Allegheny Portage Railroad National Historic Site (continued).

Species	Historical Records	May 1999 - May 2001
Brown-headed Cowbird	X	X
Canada Goose		X
Canada Warbler	X	X
Cape May Warbler	X	X
Carolina Wren	X	X
Cedar Waxwing	X	X
Cerulean Warbler		X
Chestnut-sided Warbler	X	X
Chimney Swift	X	X
Chipping Sparrow	X	X
Common Grackle	X	X
Common Raven	X	X
Common Redpoll		X
Common Yellowthroat	X	X
Cooper’s Hawk	X	X
Dark-eyed Junco		X
Downy Woodpecker	X	X
Eastern bluebird		X
Eastern Kingbird		X
Eastern Meadowlark		X
Eastern Phoebe	X	X
Eastern Screech-owl		X
Eastern Towhee	X	X
Eastern Wood-pewee	X	X



Appendix S. Bird species noted (indicated by an “X”) from historical records versus species detected from May 1999 - May 2001 at Allegheny Portage Railroad National Historic Site (continued).

Species	Historical Records	May 1999 - May 2001
European Starling		X
Field Sparrow	X	X
Fish Crow		X
Golden-crowned Kinglet		X
Gray Catbird	X	X
Great Blue Heron		X
Great Crested Flycatcher		X
Great Horned Owl		X
Hairy Woodpecker	X	X
Hermit Thrush		X
Hooded Warbler	X	X
House Finch		X
House Wren	X	X
Indigo Bunting	X	X
Kentucky Warbler	X	
Least Flycatcher	X	X
Louisiana Waterthrush	X	X
Magnolia Warbler	X	X
Mallard	X	X
Mourning Dove		X
Mourning Warbler ( <i>Oporornis philadelphia</i> )	X	
Nashville Warbler	X	X
Northern Cardinal	X	X

Appendix S. Bird species noted (indicated by an “X”) from historical records versus species detected from May 1999 - May 2001 at Allegheny Portage Railroad National Historic Site (continued).

Species	Historical Records	May 1999 - May 2001
Northern Flicker	X	X
Northern Parula	X	X
Northern Saw-whet Owl		X
Northern Waterthrush	X	X
Ovenbird	X	X
Palm Warbler	X	
Philadelphia Vireo	X	X
Pileated Woodpecker	X	X
Pine Warbler		X
Purple Finch		X
Red-bellied Woodpecker	X	X
Red-eyed Vireo	X	X
Red-shouldered Hawk		X
Red-tailed Hawk		X
Red-winged Blackbird	X	X
Rock Dove		X
Rose-breasted Grosbeak	X	X
Ruby-crowned Kinglet	X	X
Ruby-throated Hummingbird		X
Ruffed Grouse	X	X
Savannah Sparrow		X
Scarlet Tanager	X	X
Song Sparrow	X	X
Swainson’s Thrush	X	X

Appendix S. Bird species noted (indicated by an “X”) from historical records versus species detected from May 1999 - May 2001 at Allegheny Portage Railroad National Historic Site (continued).

Species	Historical Records	May 1999 - May 2001
Swamp Sparrow		X
Tree Swallow	X	X
Tufted Titmouse	X	X
Tundra Swan		X
Turkey Vulture	X	X
Veery	X	X
Vesper Sparrow		X
Warbling Vireo	X	
White-breasted Nuthatch	X	X
White-crowned Sparrow	X	
White-eyed Vireo		X
White-throated Sparrow	X	X
Wild Turkey		X
Willow Flycatcher	X	X
Winter wren		X
Wood thrush	X	X
Worm-eating warbler	X	X
Yellow warbler	X	X
Yellow-bellied sapsucker		X
Yellow-billed cuckoo	X	X
Yellow-breasted chat		X



Appendix S. Bird species noted (indicated by an “X”) from historical records versus species detected from May 1999 - May 2001 at Allegheny Portage Railroad National Historic Site (continued).

Species	Historical Records	May 1999 - May 2001
Yellow-rumped warbler	X	X
Yellow-throated vireo		X
Total Number of Species	78	113

<sup>a</sup> Historical records were taken from the NPSpecies database (National Park Service 2001).

Appendix T. Classifications<sup>a</sup> of the relative abundance of bird species identified during spring-migratory (15 April - 25 May), breeding (25 May - 15 July), fall-migratory (25 August - 10 October), and winter seasons (1 December - 15 March), May 1999 - May 2001 at Allegheny Portage Railroad National Historic Site.

Species	Spring Migration	Breeding	Fall Migration	Winter
Acadian Flycatcher	O	U	--	--
American Crow	C	C	C	C
American Goldfinch	A	U	A	U
American Redstart	C	C	O	--
American Robin	C	C	U	U
American Tree Sparrow	--	--	--	O
American Woodcock	--	--	R	R
Baltimore Oriole	O	O	--	--
Bay-breasted Warbler	--	--	R	--
Belted Kingfisher	R	--	R	--
Black-and-white Warbler	O	O	O	--
Black-billed Cuckoo	R	--	R	--
Black-capped Chickadee	C	U	A	A
Blackburnian Warbler	U	O	--	--
Blackpoll Warbler	O	--	R	--
Black-throated Blue Warbler	O	--	O	--
Black-throated Green Warbler	A	C	O	--
Blue Jay	C	U	A	U
Blue-gray Gnatcatcher	O	O	--	--
Blue-headed Vireo	C	U	O	--
Blue-winged Warbler	--	--	R	--
Broad-winged Hawk	O	R	--	--
Brown Creeper	O	--	O	O

Appendix T. Classifications of the relative abundance of bird species identified during spring-migratory (15 April - 25 May), breeding (25 May - 15 July), fall-migratory (25 August - 10 October), and winter seasons (1 December - 15 March), May 1999 - May 2001 at Allegheny Portage Railroad National Historic Site (continued).

Species	Spring Migration	Breeding	Fall Migration	Winter
Brown Thrasher	O	R	--	--
Brown-headed Cowbird	U	O	--	--
Canada Goose	--	--	C	--
Canada Warbler	R	--	O	--
Cape May Warbler	R	--	--	--
Carolina Wren	O	R	O	O
Cedar Waxwing	--	U	A	O
Cerulean Warbler	R	--	--	--
Chestnut-sided Warbler	O	O	O	--
Chimney Swift	O	O	--	--
Chipping Sparrow	A	C	O	--
Common Grackle	O	O	--	--
Common Raven	O	--	O	R
Common Redpoll	--	--	--	R
Common Yellowthroat	C	C	U	--
Cooper's hawk	--	--	--	R
Dark-eyed Junco	O	--	--	U
Downy Woodpecker	U	O	U	U
Eastern Bluebird	O	O	O	--
Eastern Kingbird	R	--	--	--
Eastern Meadowlark	O	--	--	--
Eastern Phoebe	O	R	O	--
Eastern Screech-owl	R	--	--	C



Appendix T. Classifications of the relative abundance of bird species identified during spring-migratory (15 April - 25 May), breeding (25 May - 15 July), fall-migratory (25 August - 10 October), and winter seasons (1 December - 15 March), May 1999 - May 2001 at Allegheny Portage Railroad National Historic Site (continued).

Species	Spring Migration	Breeding	Fall Migration	Winter
Eastern Towhee	C	C	U	--
Eastern Wood-pewee	O	U	O	--
European Starling	O	U	--	O
Field Sparrow	C	U	O	--
Fish Crow	R	--	--	--
Golden-crowned Kinglet	--	--	--	C
Gray Catbird	U	C	C	--
Great Blue Heron	--	--	--	R
Great Crested Flycatcher	R	O	--	--
Great Horned Owl	R	R	R	O
Hairy Woodpecker	O	O	O	U
Hermit Thrush	O	--	--	--
Hooded Warbler	--	--	R	--
House Finch	R	--	--	O
House Wren	U	U	R	--
Indigo Bunting	U	C	O	--
Least Flycatcher	O	--	R	--
Louisiana Waterthrush	U	O	--	--
Magnolia Warbler	O	O	O	--
Mallard	O	--	--	--
Mourning Dove	O	O	R	--
Nashville Warbler	O	--	O	--
Northern Cardinal	U	U	O	O

Appendix T. Classifications of the relative abundance of bird species identified during spring-migratory (15 April - 25 May), breeding (25 May - 15 July), fall-migratory (25 August - 10 October), and winter seasons (1 December - 15 March), May 1999 - May 2001 at Allegheny Portage Railroad National Historic Site (continued).

Species	Spring Migration	Breeding	Fall Migration	Winter
Northern Flicker	U	O	O	O
Northern Parula	O	O	--	--
Northern Saw-whet Owl	--	--	--	O
Northern Waterthrush	R	--	--	--
Ovenbird	A	A	O	--
Philadelphia Vireo	R	--	O	--
Pileated Woodpecker	O	O	O	O
Pine Warbler	O	--	O	--
Purple Finch	O	--	O	--
Red-bellied Woodpecker	O	O	O	O
Red-eyed Vireo	A	A	U	--
Red-shouldered Hawk	R	--	--	--
Red-tailed Hawk	O	--	R	O
Red-winged Blackbird	U	O	--	--
Rock Dove	--	O	--	--
Rose-breasted Grosbeak	O	O	O	--
Ruby-crowned Kinglet	U	--	--	--
Ruby-throated Hummingbird	--	O	O	--
Ruffed Grouse	O	--	--	O
Savannah Sparrow	--	--	R	--
Scarlet Tanager	U	C	O	--
Song Sparrow	C	C	O	O
Swainson's Thrush	O	--	O	--

Appendix T. Classifications of the relative abundance of bird species identified during spring-migratory (15 April - 25 May), breeding (25 May - 15 July), fall-migratory (25 August - 10 October), and winter seasons (1 December - 15 March), May 1999 - May 2001 at Allegheny Portage Railroad National Historic Site (continued).

Species	Spring Migration	Breeding	Fall Migration	Winter
Swamp Sparrow	R	--	--	--
Tree Swallow	O	O	--	--
Tufted Titmouse	C	U	U	U
Tundra Swan	R	--	--	--
Turkey Vulture	R	--	--	--
Veery	--	--	R	--
Vesper Sparrow	O	--	--	--
White-breasted nuthatch	U	O	U	U
White-eyed vireo	R	--	--	--
White-throated sparrow	O	--	--	O
Wild Turkey	--	O	--	O
Winter wren	R	--	--	--
Wood thrush	C	C	O	--
Worm-eating warbler	O	--	--	--
Yellow warbler	U	U	--	--
Yellow-bellied sapsucker	--	--	R	--
Yellow-billed cuckoo	R	O	--	--
Yellow-rumped warbler	U	--	--	--
Yellow-throated vireo	--	O	--	--
Total Number of Species	92	60	62	34

<sup>a</sup> Classifications refer to the following categories: A, abundant (should be located in large numbers and in more than one habitat); C, common (should be located in fairly large numbers in appropriate habitat); U, uncommon (present in appropriate habitat, but not located in large numbers); O, occasional (present in some parcels of appropriate habitat, but not certain to be detected); R, rare (detected only a few times at most per season); --, none detected during the season.





Appendix U. Relative abundance (average number/point/survey) of the most common long-distance migrant, short-distance migrant, and permanent-resident species identified from point-count sampling points in forest cover type during spring-migratory seasons (15 April - 25 May, 2000 and 2001) at Allegheny Portage Railroad National Historic Site.

Resident Status	Species	Average Number/Point/Survey
Long-distant Migrant	Black-throated Green Warbler	1.2
	Ovenbird	1.0
	Red-eyed Vireo	0.7
	American Redstart	0.4
	Wood Thrush	0.3
	Scarlet Tanager	0.2
	Black-and-white Warbler	0.1
	Blackburnian Warbler	0.1
	Chestnut-sided Warbler	0.1
	Louisiana Waterthrush	0.1
	Magnolia Warbler	0.1
	Rose-breasted Grosbeak	0.1
Short-distance Migrant	Blue-headed Vireo	0.7
	Eastern Towhee	0.3
	Common Yellowthroat	0.3
	Yellow-rumped Warbler	0.3
	Brown-headed Cowbird	0.1
	Chipping Sparrow	0.1
	House Wren	0.1
	Ruby-crowned Kinglet	0.1
	White-throated Sparrow	0.1
	Blue-gray Gnatcatcher	0.1
	Gray Catbird	0.1
	Hermit Thrush	0.1

Appendix U. Relative abundance (average number/point/survey) of the most common long-distance migrant, short-distance migrant, and permanent-resident species identified from point-count sampling points in forest cover type during spring-migratory seasons (15 April - 25 May, 2000 and 2001) at Allegheny Portage Railroad National Historic Site (continued).

Resident Status	Species	Average Number/Point/Survey
Permanent Resident	Blue Jay	0.6
	American Goldfinch	0.4
	American Robin	0.4
	Tufted Titmouse	0.3
	Black-capped Chickadee	0.3
	American Crow	0.2
	White-breasted Nuthatch	0.2
	Northern Cardinal	0.2
	Hairy Woodpecker	0.1
	Pileated Woodpecker	0.1

Appendix V. Relative abundance (average number/point/survey) of the most common long-distance migrant, short-distance migrant, and permanent-resident bird species identified from point-count sampling points in forest cover type during breeding seasons (25 May - 15 July, 1999 and 2000) at Allegheny Portage Railroad National Historic Site.

Resident Status	Species	Average Number/Point/Survey
Long-distance Migrant	Red-eyed Vireo	2.1
	Ovenbird	0.9
	Black-throated Green Warbler	0.8
	Scarlet Tanager	0.4
	American Redstart	0.3
	Acadian Flycatcher	0.3
	Wood Thrush	0.2
	Indigo Bunting	0.2
	Eastern Wood-pewee	0.2
	Blackburnian Warbler	0.1
	Magnolia Warbler	0.1
	Yellow-billed Cuckoo	0.1
Short-distance Migrant	Common Yellowthroat	0.2
	Blue-headed Vireo	0.2
	Eastern Towhee	0.2
	Gray Catbird	0.1
	Brown-headed Cowbird	0.1
	Chipping Sparrow	0.1
	Field Sparrow	0.1
	Blue-gray Gnatcatcher	< 0.1
	Eastern Phoebe	< 0.1
	House Wren	< 0.1

Appendix V. Relative abundance (average number/point/survey) of the most common long-distance migrant, short-distance migrant, and permanent-resident bird species identified from point-count sampling points in forest cover type during breeding seasons (25 May - 15 July, 1999 and 2000) at Allegheny Portage Railroad National Historic Site (continued).

Resident Status	Species	Average Number/Point/Survey
Permanent Resident	American Crow	0.1
	White-breasted Nuthatch	0.1
	American Robin	0.1
	Northern Cardinal	0.1
	Black-capped Chickadee	0.1
	Downy Woodpecker	0.1
	Tufted Titmouse	0.1
	Blue Jay	0.1
	Hairy Woodpecker	0.1
	Red-bellied Woodpecker	0.1
	Song Sparrow	0.1

Appendix W. Relative abundance (average number/point/survey) of the most common long-distance migrant, short-distance migrant, and permanent-resident species identified from point-count sampling points in forest cover type during fall-migratory seasons (25 August - 10 October, 1999 and 2000) at Allegheny Portage Railroad National Historic Site.

Resident Status	Species	Average Number/Point/Survey
Long -distance Migrant	Red-eyed Vireo	0.2
	Black-throated Green Warbler	0.1
	Indigo Bunting	0.1
	Rose-breasted Grosbeak	0.1
	Ovenbird	0.1
	Eastern Wood-pewee	0.1
	Wood Thrush	0.1
	American Redstart	0.1
	Black-and-white Warbler	0.1
	Canada Warbler	0.1
	Chestnut-sided Warbler	0.1
	Magnolia Warbler	0.1
	Philadelphia Vireo	0.1
	Scarlet Tanager	0.1
Short-distance Migrant	Gray Catbird	0.2
	Common Yellowthroat	0.1
	Eastern Towhee	0.1
	Blue-headed Vireo	0.1
	Pine Warbler	< 0.1



Appendix W. Relative abundance (average number/point/survey) of the most common long-distance migrant, short-distance migrant, and permanent-resident species identified from point-count sampling points in forest cover type during fall-migratory seasons (25 August - 10 October, 1999 and 2000) at Allegheny Portage Railroad National Historic Site (continued).

Resident Status	Species	Average Number/Point/Survey
Permanent Resident	Black-capped Chickadee	0.6
	White-breasted Nuthatch	0.3
	Blue Jay	0.3
	Cedar Waxwing	0.3
	Downy Woodpecker	0.2
	American Goldfinch	0.2
	American Robin	0.2
	Red-bellied Woodpecker	0.1
	Tufted Titmouse	0.1
	Hairy Woodpecker	0.1
	Northern cardinal	0.1

Appendix X. Relative abundance (average number/point/survey) of the most common short-distance migrant and permanent-resident species identified from point-count sampling points in forest cover type during winter seasons (1 December - 15 March, 1999-00 and 2000-01) at Allegheny Portage Railroad National Historic Site.

Resident Status	Species	Average Number/Point/Survey
Short-distance Migrant	Golden-crowned Kinglet	0.4
	Dark-eyed Junco	0.2
Permanent Resident	Black-capped Chickadee	0.7
	White-breasted Nuthatch	0.4
	Tufted Titmouse	0.3
	Hairy Woodpecker	0.3
	Downy Woodpecker	0.2
	American Crow	0.2
	American Robin	0.2
	American Goldfinch	0.1
	Northern Cardinal	0.1
	Cedar Waxwing	0.1
	Red-tailed Hawk	0.1



Appendix Y. Classifications<sup>a</sup> of the relative abundance of bird species identified during spring-migratory (15 April - 25 May), breeding (25 May - 15 July), fall-migratory (25 August - 10 October), and winter seasons (1 December - 15 March), May 1999 - May 2001 at Eisenhower National Historic Site.

Species	Spring Migration	Breeding	Fall Migration	Winter
Acadian Flycatcher	--	R	--	--
American Crow	A	A	A	A
American Goldfinch	U	C	A	C
American Kestrel	C	O	U	U
American Redstart	--	R	--	--
American Robin	A	A	C	A
American Tree Sparrow	R	--	--	O
Baltimore Oriole	U	U	--	--
Barn Swallow	A	A	--	--
Barred Owl	--	--	--	O
Belted Kingfisher	O	R	O	O
Black Vulture	--	U	--	R
Black-throated Green Warbler	R	--	O	--
Blue Jay	C	U	A	A
Blue-gray Gnatcatcher	O	O	--	--
Blue-headed Vireo	R	--	--	--
Bobolink	C	C	--	--
Brown Creeper	--	--	--	R
Brown Thrasher	U	U	--	--
Brown-headed Cowbird	C	U	--	O
Canada Goose	A	U	A	A
Carolina Chickadee	C	U	U	C
Carolina Wren	O	O	O	O

Appendix Y. Classifications of the relative abundance of bird species identified during spring-migratory (15 April - 25 May), breeding (25 May - 15 July), fall-migratory (25 August - 10 October), and winter seasons (1 December - 15 March), May 1999 - May 2001 at Eisenhower National Historic Site (continued).

Species	Spring Migration	Breeding	Fall Migration	Winter
Cedar Waxwing	--	U	O	--
Chestnut-sided Warbler	R	--	R	--
Chimney Swift	O	U	R	--
Chipping Sparrow	O	C	O	--
Common Grackle	A	C	O	A
Common Snipe	--	--	--	U
Common Yellowthroat	C	O	O	--
Cooper's Hawk	--	--	--	O
Dark-eyed Junco	O	--	--	A
Downy Woodpecker	O	U	U	U
Eastern Bluebird	U	C	A	C
Eastern Kingbird	U	C	R	--
Eastern Meadowlark	A	A	U	U
Eastern Phoebe	O	U	U	O
Eastern Towhee	U	O	O	--
Eastern Wood-pewee	U	C	U	--
European Starling	A	A	A	A
Field Sparrow	C	U	O	R
Fish Crow	O	O	--	--
Golden-crowned Kinglet	R	--	--	O
Grasshopper Sparrow	U	C	--	--
Gray Catbird	U	C	U	--
Great Blue Heron	O	R	O	O

Appendix Y. Classifications of the relative abundance of bird species identified during spring-migratory (15 April - 25 May), breeding (25 May - 15 July), fall-migratory (25 August - 10 October), and winter seasons (1 December - 15 March), May 1999 - May 2001 at Eisenhower National Historic Site (continued).

Species	Spring Migration	Breeding	Fall Migration	Winter
Great Crested Flycatcher	O	U	--	--
Green Heron	R	O	--	--
Hairy Woodpecker	R	O	R	O
Hermit Thrush	O	--	--	R
House Finch	C	C	C	A
House Sparrow	A	A	C	C
House Wren	A	A	O	--
Indigo Bunting	O	O	R	--
Kentucky Warbler	R	--	--	--
Killdeer	U	U	A	U
Lincoln's Sparrow	--	--	R	--
Loggerhead Shrike	R	O	--	--
Louisiana Waterthrush	O	--	--	--
Magnolia Warbler	--	--	O	--
Mallard	O	O	--	U
Mourning Dove	C	A	A	A
Northern Cardinal	C	C	U	U
Northern Flicker	U	O	U	U
Northern Harrier	--	--	U	O
Northern Mockingbird	C	A	U	U
Northern Rough-winged Swallow	O	--	--	--
Northern Waterthrush	R	--	--	--
Orchard Oriole	U	O	--	--



Appendix Y. Classifications of the relative abundance of bird species identified during spring-migratory (15 April - 25 May), breeding (25 May - 15 July), fall-migratory (25 August - 10 October), and winter seasons (1 December - 15 March), May 1999 - May 2001 at Eisenhower National Historic Site (continued).

Species	Spring Migration	Breeding	Fall Migration	Winter
Ovenbird	R	--	--	--
Palm Warbler	O	--	O	--
Pileated Woodpecker	R	--	R	O
Pine Warbler	R	--	--	--
Prairie Warbler	R	R	--	--
Purple Finch	R	--	--	--
Red-bellied Woodpecker	C	U	C	A
Red-breasted Nuthatch	--	--	R	R
Red-eyed Vireo	O	U	O	--
Red-headed Woodpecker	U	U	U	O
Red-shouldered Hawk	O	O	R	O
Red-tailed Hawk	A	C	A	C
Red-winged Blackbird	A	A	C	A
Ring-billed Gull	--	--	--	O
Rock Dove	O	U	U	A
Rose-breasted Grosbeak	R	--	--	--
Ruby-crowned Kinglet	O	--	R	--
Ruby-throated Hummingbird	R	--	--	--
Savannah Sparrow	U	O	--	--
Scarlet Tanager	R	--	R	--
Sharp-shinned Hawk	--	--	O	--
Song Sparrow	A	A	C	A
Swamp Sparrow	O	--	--	--

Appendix Y. Classifications of the relative abundance of bird species identified during spring-migratory (15 April - 25 May), breeding (25 May - 15 July), fall-migratory (25 August - 10 October), and winter seasons (1 December - 15 March), May 1999 - May 2001 at Eisenhower National Historic Site (continued).

Species	Spring Migration	Breeding	Fall Migration	Winter
Tree Swallow	O	O	--	--
Tufted Titmouse	C	C	C	C
Turkey Vulture	A	A	A	U
Veery	--	--	R	--
Vesper Sparrow	--	R	--	--
Warbling Vireo	O	O	--	--
White-breasted Nuthatch	U	U	U	C
White-crowned Sparrow	--	--	--	U
White-eyed Vireo	O	--	--	--
White-throated Sparrow	O	--	R	O
Willow Flycatcher	--	O	--	--
Wood Thrush	O	U	R	--
Worm-eating Warbler	--	R	--	--
Yellow Warbler	O	O	--	--
Yellow-bellied Sapsucker	--	--	--	O
Yellow-billed Cuckoo	--	O	--	--
Yellow-rumped Warbler	C	--	O	O
Total Number of Species	88	72	61	54

<sup>a</sup> Classifications refer to the following categories: A, abundant (should be located in large numbers and in more than one habitat); C, common (should be located in fairly large numbers in appropriate habitat); U, uncommon (present in appropriate habitat, but not located in large numbers); O, occasional (present in some parcels of appropriate habitat, but not certain to be detected); R, rare (detected only a few times at most per season); --, none detected during the season.



Appendix Z. Relative abundance (average number/point/survey) of the most common long-distance migrant, short-distance migrant, and permanent-resident species identified from point-count sampling points during spring-migratory seasons (15 April - 25 May, 2000 and 2001) at Eisenhower National Historic Site.

Resident Status	Species	Average Number/Point/Survey
Long-distance Migrant	Barn Swallow	1.2
	Bobolink	0.2
	Eastern Kingbird	0.2
	Orchard Oriole	0.2
	Eastern Wood-pewee	0.1
	Indigo Bunting	0.1
	Baltimore Oriole	0.1
	Red-eyed Vireo	0.1
	Great Crested Flycatcher	0.1
	Wood Thrush	0.1
	Yellow Warbler	0.1
Short-distance Migrant	Red-winged Blackbird	2.8
	House Wren	0.5
	Chipping Sparrow	0.4
	Yellow-rumped Warbler	0.4
	Brown-headed Cowbird	0.3
	Gray Catbird	0.2
	Eastern Towhee	0.2
	Field Sparrow	0.2
	Grasshopper Sparrow	0.2
	Savannah Sparrow	0.1

Appendix Z. Relative abundance (average number/point/survey) of the most common long-distance migrant, short-distance migrant, and permanent-resident species identified from point-count sampling points during spring-migratory seasons (15 April - 25 May, 2000 and 2001) at Eisenhower National Historic Site (continued).

Resident Status	Species	Average Number/Point/Survey
Permanent Resident	European Starling	3.7
	American Robin	1.8
	Song Sparrow	0.9
	House Sparrow	0.8
	Canada Goose	0.7
	Common Grackle	0.6
	House Finch	0.6
	Eastern Meadowlark	0.5
	Mourning Dove	0.4
	Northern Cardinal	0.3

Appendix AA. Relative abundance (average number/point/survey) of the most common long-distance migrant, short-distance migrant, and permanent-resident species identified from point-count sampling points during breeding seasons (25 May - 15 July, 1999 and 2000) at Eisenhower National Historic Site.

Resident Status	Species	Average Number/Point/Survey
Long-distance Migrant	Barn Swallow	1.5
	Eastern Wood-pewee	0.3
	Great Crested Flycatcher	0.2
	Baltimore Oriole	0.2
	Eastern Kingbird	0.2
	Chimney Swift	0.2
	Red-eyed Vireo	0.2
	Bobolink	0.1
	Wood Thrush	0.1
	Indigo Bunting	0.1
	Orchard Oriole	0.1
Short-distance Migrant	Red-winged Blackbird	2.0
	House Wren	0.8
	Grasshopper Sparrow	0.4
	Gray Catbird	0.4
	Chipping Sparrow	0.2
	Field Sparrow	0.2
	Killdeer	0.1
	Brown-headed Cowbird	0.1
	Brow Thrasher	0.1
	Tree Swallow	0.1



Appendix AA. Relative abundance (average number/point/survey) of the most common long-distance migrant, short-distance migrant, and permanent-resident species identified from point-count sampling points during breeding seasons (25 May - 15 July, 1999 and 2000) at Eisenhower National Historic Site (continued).

Resident Status	Species	Average Number/Point/Survey
Permanent Resident	European Starling	2.5
	American Robin	0.8
	House Sparrow	0.8
	Song Sparrow	0.8
	Northern Mockingbird	0.5
	Eastern Meadowlark	0.5
	Mourning Dove	0.4
	Northern Cardinal	0.3
	American Goldfinch	0.3
	Common Grackle	0.3

Appendix AB. Relative abundance (average number/point/survey) of the most common long-distance migrant, short-distance migrant, and permanent-resident species identified from point-count sampling points during fall-migratory seasons (25 August - 10 October, 1999 and 2000) at Eisenhower National Historic Site.

Resident Status	Species	Average Number/Point/Survey
Long-distance Migrant	Eastern Wood-pewee	0.2
	Magnolia Warbler	0.1
	Red-eyed Vireo	0.1
	Black-throated Green Warbler	< 0.1
	Chimney Swift	< 0.1
	Chestnut-sided Warbler	< 0.1
	Eastern Kingbird	< 0.1
	Indigo Bunting	< 0.1
	Scarlet Tanager	< 0.1
	Veery	< 0.1
	Wood Thrush	< 0.1
Short-distance Migrant	Killdeer	1.0
	Red-winged Blackbird	0.4
	Gray Catbird	0.2
	Eastern Phoebe	0.1
	Field Sparrow	0.1
	Common Yellowthroat	0.1
	Chipping Sparrow	0.1
	Eastern Towhee	0.1
	Palm Warbler	0.1
	Yellow-rumped Warbler	0.1

Appendix AB. Relative abundance (average number/point/survey) of the most common long-distance migrant, short-distance migrant, and permanent-resident species identified from point-count sampling points during fall-migratory seasons (25 August - 10 October, 1999 and 2000) at Eisenhower National Historic Site (continued).

Resident Status	Species	Average Number/Point/Survey
Permanent Resident	European Starling	3.9
	Mourning Dove	1.4
	American Goldfinch	1.0
	Blue Jay	0.6
	House Finch	0.6
	House Sparrow	0.6
	American Robin	0.5
	Song Sparrow	0.5
	Eastern Bluebird	0.4
	American Crow	0.3

Appendix AC. Relative abundance (average number/point/survey) of the most common short-distance migrant and permanent-resident species identified from point-count sampling points during winter seasons (1 December - 15 March, 1999-00 and 2000-01) at Eisenhower National Historic Site.

Resident Status	Species	Average Number/Point/Survey
Short-distance Migrant	Red-winged Blackbird	3.9
	Dark-eyed Junco	1.5
	Common Snipe	0.3
	Killdeer	0.2
	Golden-crowned Kinglet	0.1
	White-crowned Sparrow	0.1
	Yellow-rumped Warbler	0.1
	Brown-headed Cowbird	< 0.1
	Eastern Phoebe	< 0.1
	White-throated Sparrow	< 0.1
Permanent Resident	European Starling	3.3
	American Robin	2.4
	Common Grackle	2.3
	Mourning Dove	0.9
	Song Sparrow	0.6
	American Goldfinch	0.6
	American Crow	0.5
	Tufted Titmouse	0.5
	Carolina Chickadee	0.5
	Red-bellied Woodpecker	0.4

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